



Deepwater Horizon Impacts to Gulf Coast Dredging Operations

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*Background image NASA Aeronet – May 24, 2010



TOPICS

- 🔥 Deepwater Horizon Overview & What's at Stake
- 🔥 Unified Command & USACE Actions During Spill
- 🔥 Spill Impact to FY10 Dredging Operations
- 🔥 Post-Spill Prospecting & Impact to FY11 Dredging Ops

*Background photo Al Allen – May 10, 2010



Deepwater Horizon in Perspective

🔥 4.9 Million Barrels Released between April 20 & July 15

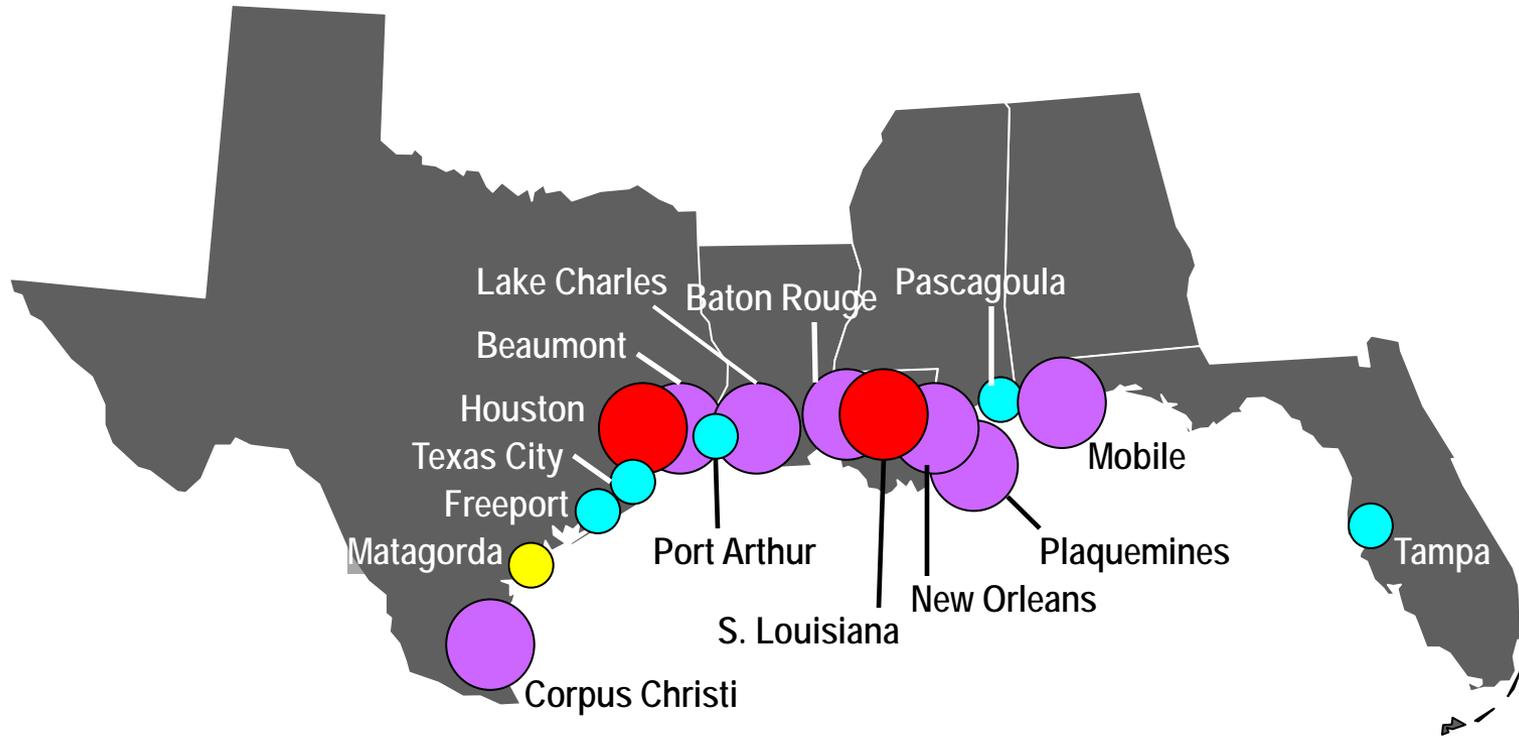
Volume Equivalent to:

- 6 hours U.S. Petroleum Consumption;
- 45 Seconds Mississippi River Discharge;
- 0.00000003% Gulf of Mexico Volume;
- Oil Released into Arabian Gulf &
1% of Oil Ignited by Retreating Iraqi Army

🔥 Unified Command comprised of USCG, NOAA, & RP
Responsible for Containing & Recovering Oil,
Assessing Environmental Damages



What's at Stake? Annual Tonnage of Gulf Coast Ports



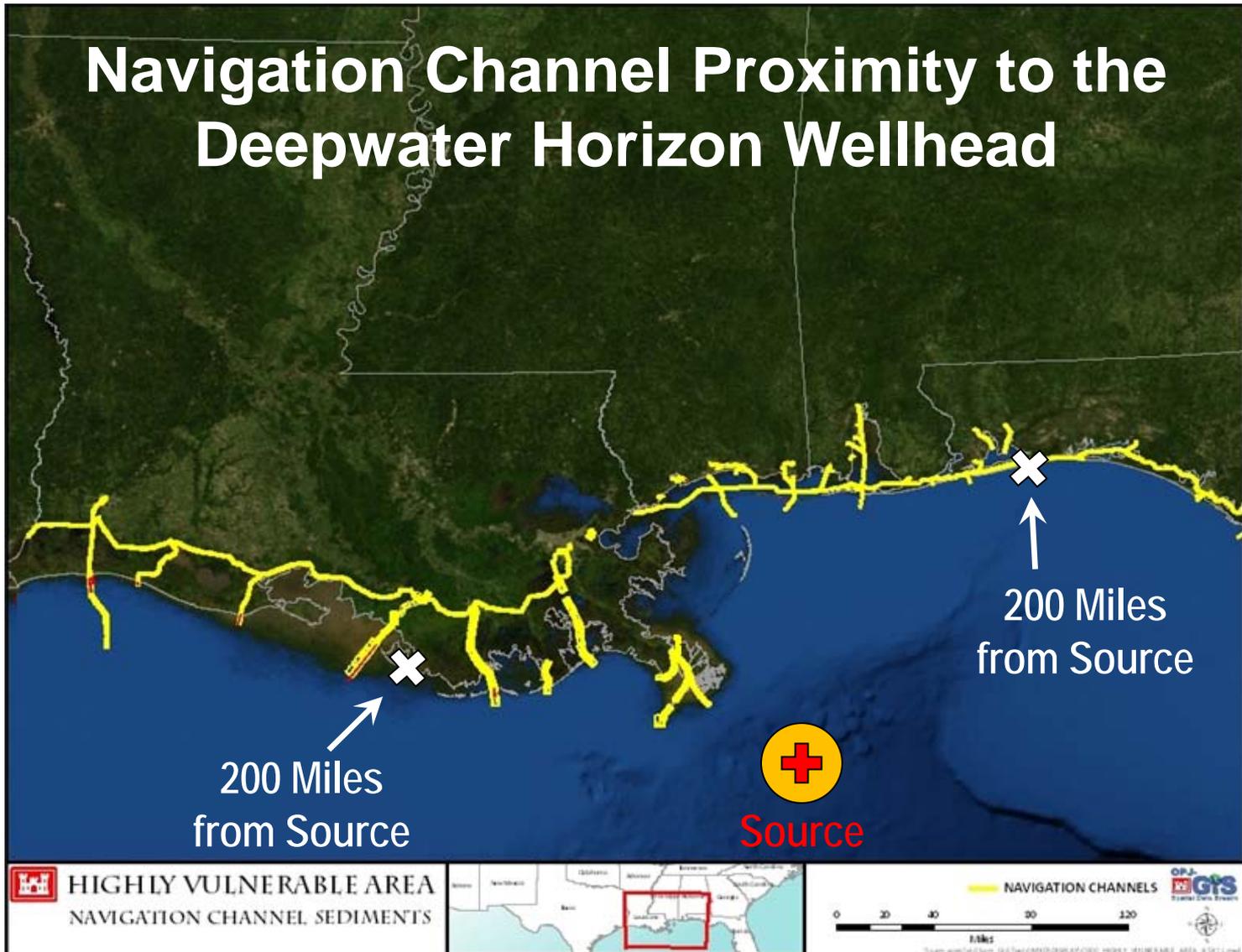
Commercial Cargo (Million Tons / year)



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Navigation Channel Proximity to the Deepwater Horizon Wellhead

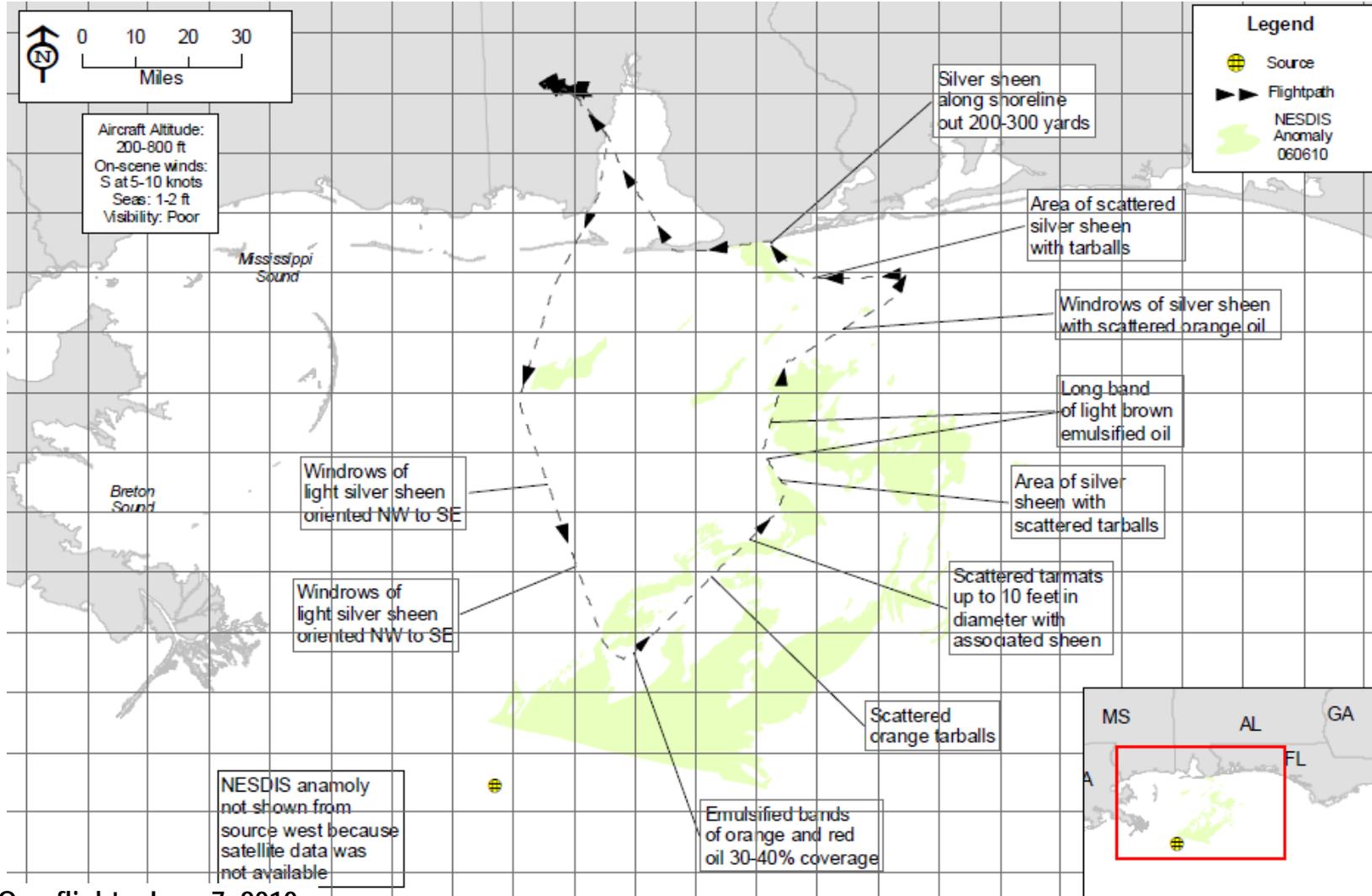




UC & USACE Coordination

- 🔹 Embed USACE Employees at Command Centers
 - 🔹 Develop Monitoring Strategies & Request Direct Action to Support Navigation Projects
 - 🔹 Access to UC Products & Reports
- ~ Stay Informed, & Stay Out of the Way ~*

Example of Unified Command Monitoring Tools



*NOAA Overflight - June 7, 2010

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UC Pre-Dredge Monitoring of Navigation Channels



Very Light



Light



Moderate



Heavy

Qualitative estimate of submerged oil based on coating of weighted sorbent material (pom poms)

USACE Hopper Dredge Monitoring Tools



Quantitative estimate of petroleum products in dredged material



Portable GC-MS



Quick Screen Fluorometer





Level Heads Prevail for Two Months



Until...

*Background photo Ron Wooten – April 28, 2010

Resource Agency Stressor #1: *iAy Caramba!*



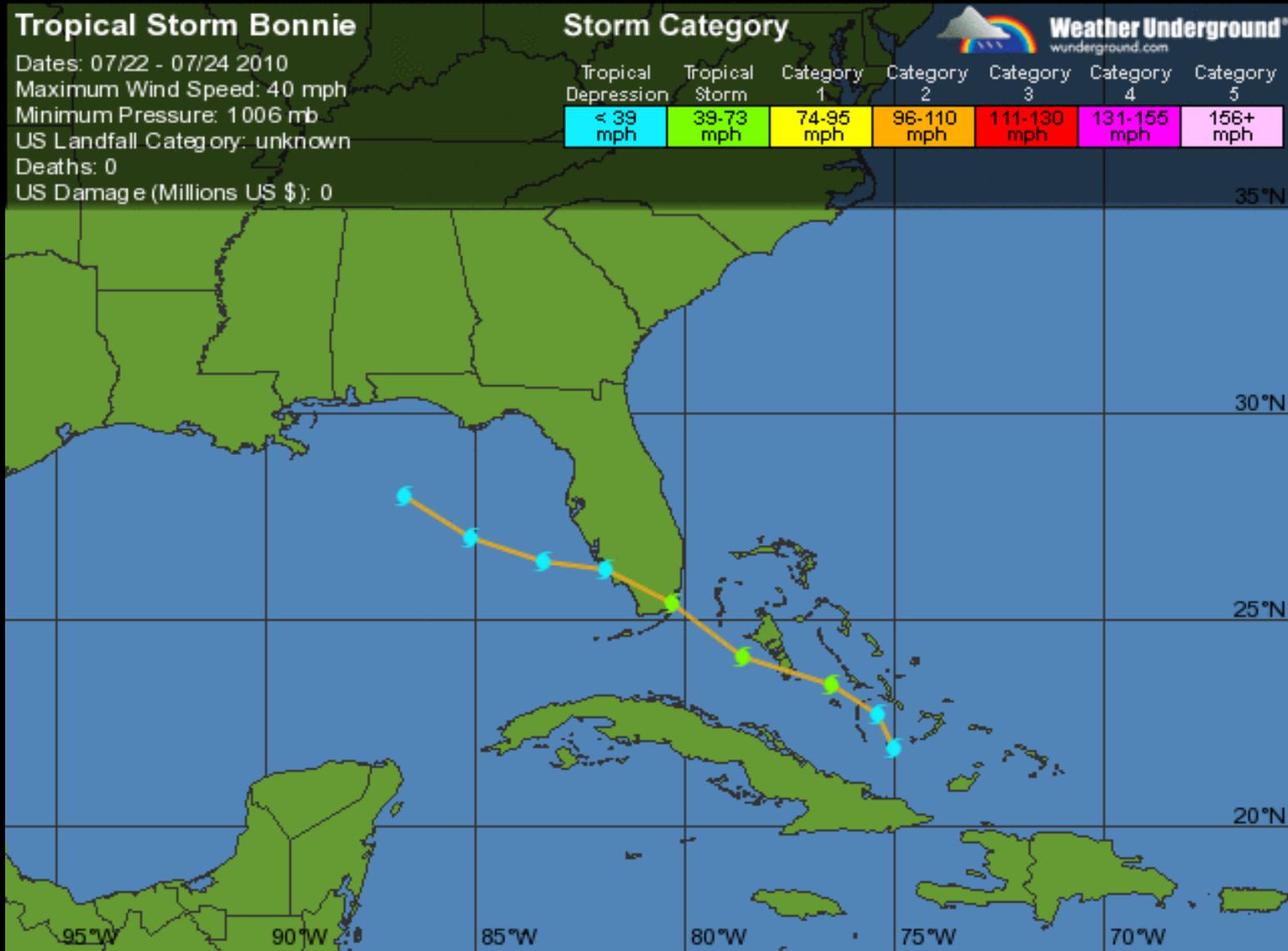
Resource Agency Stressor #2: *Turtle Party at Hewes Point!*



Resource Agency Stressor #3:



Bonnie's Black Wave of Death





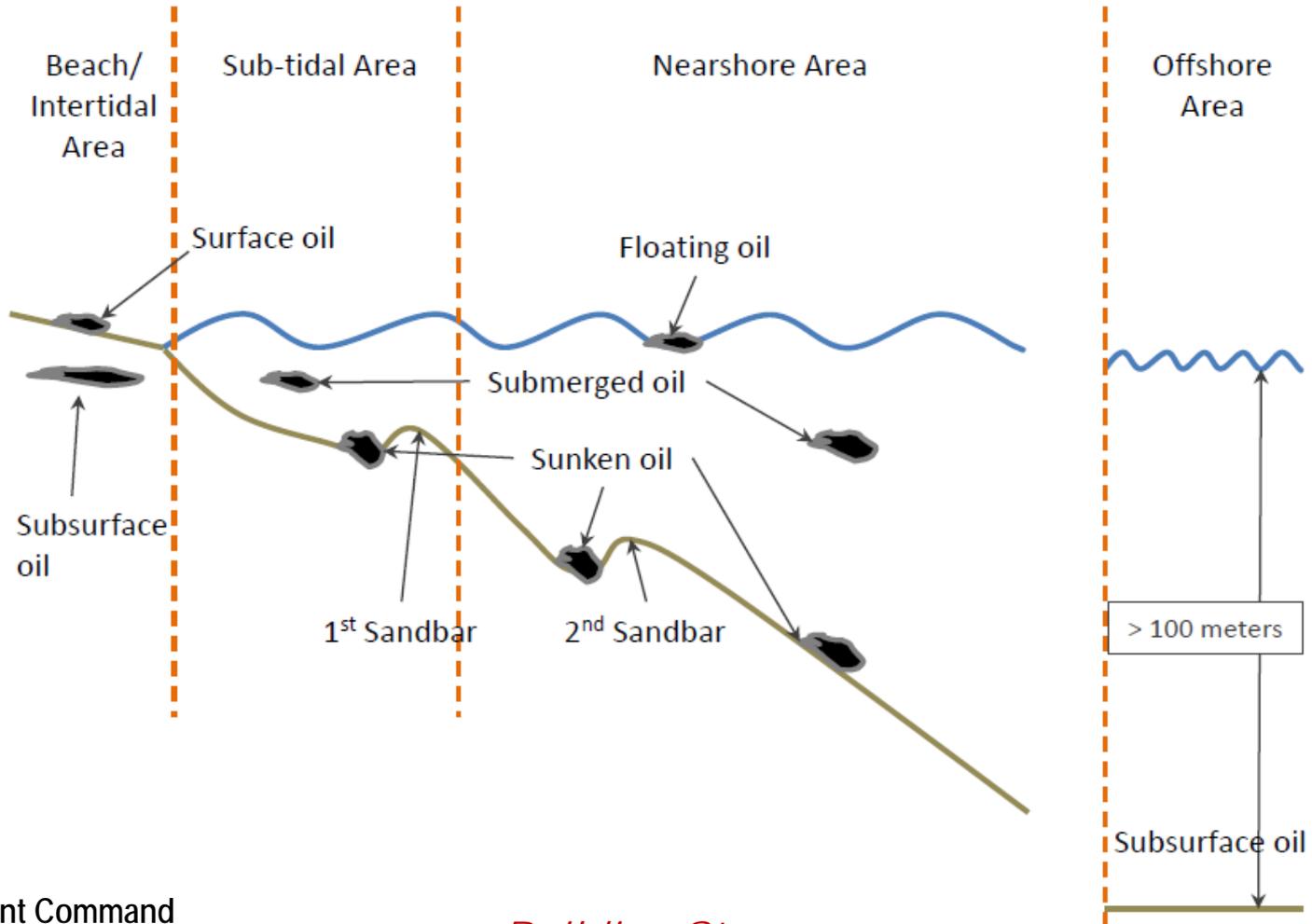
Stressor Impact to Dredging Operations

- 💧 **Alex Pushes Sheen into SW Pass**
 - ODMDS Closed for 24 Days
 - 💧 **Lethal Sea Turtle Take Limit Exceeded**
 - Additional Permitting Req for all Gulf Hopper Projects
 - 💧 **“Potential” Dredged Material Oil Contamination**
 - Re-evaluation of Channels w/i 200 Miles of DWH
- ~ No Direct Oil Impacts to Dredging Ops ~*



Preparing for FY11 - Post Spill UC Activities

Oil and Area Definitions

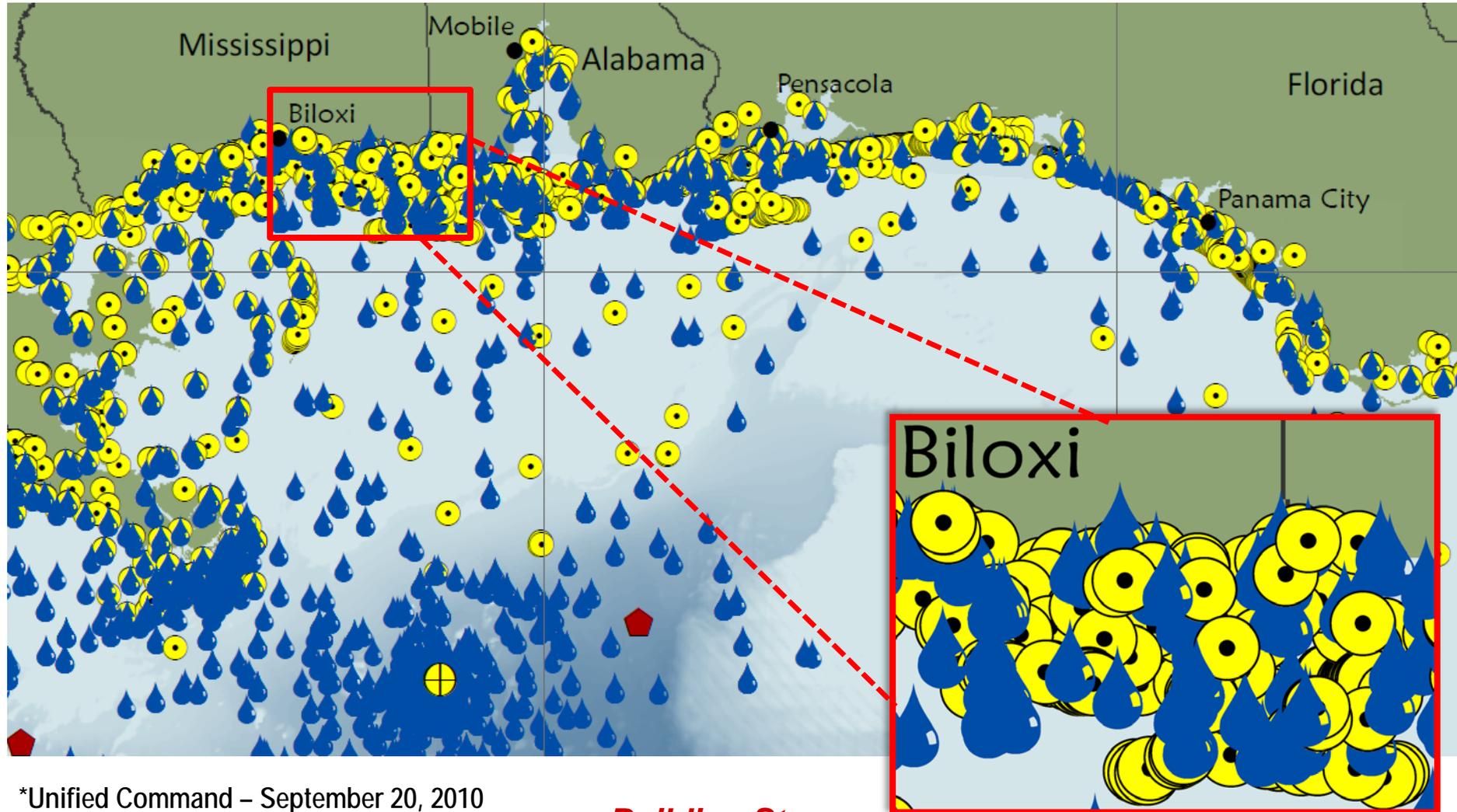


*Mobile Incident Command

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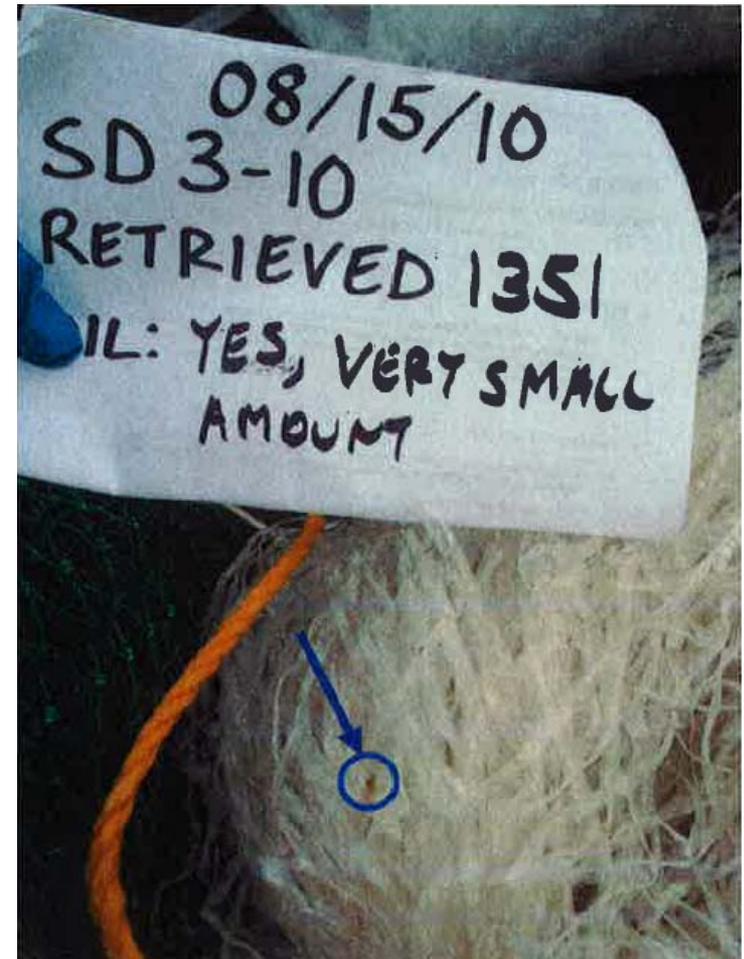
Post Spill UC Activities – Sediment & Water Sample Sites



*Unified Command – September 20, 2010

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UC Post Spill Findings – Submerged Oil



*ENTRIX – August 18, 2010 (Breton Sound)



UC Post Spill Findings – Sub-Tidal Oil

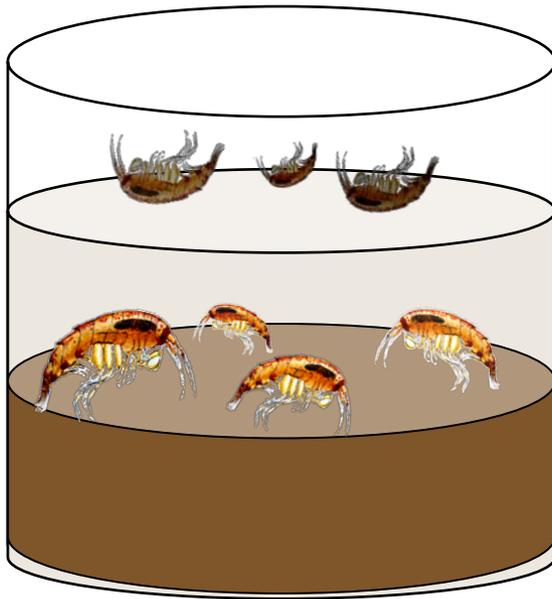
Saturday, 9/11/2010, Mobile SCAT Team 2,
Bon Secour Wildlife Refuge beach, AL coast
N 30.22800 W 87.85400

Submerged tarmat of oil saturated sand and shell hash located in shallow depression just off beach.

Vertical plug removed from the center of the tarmat.

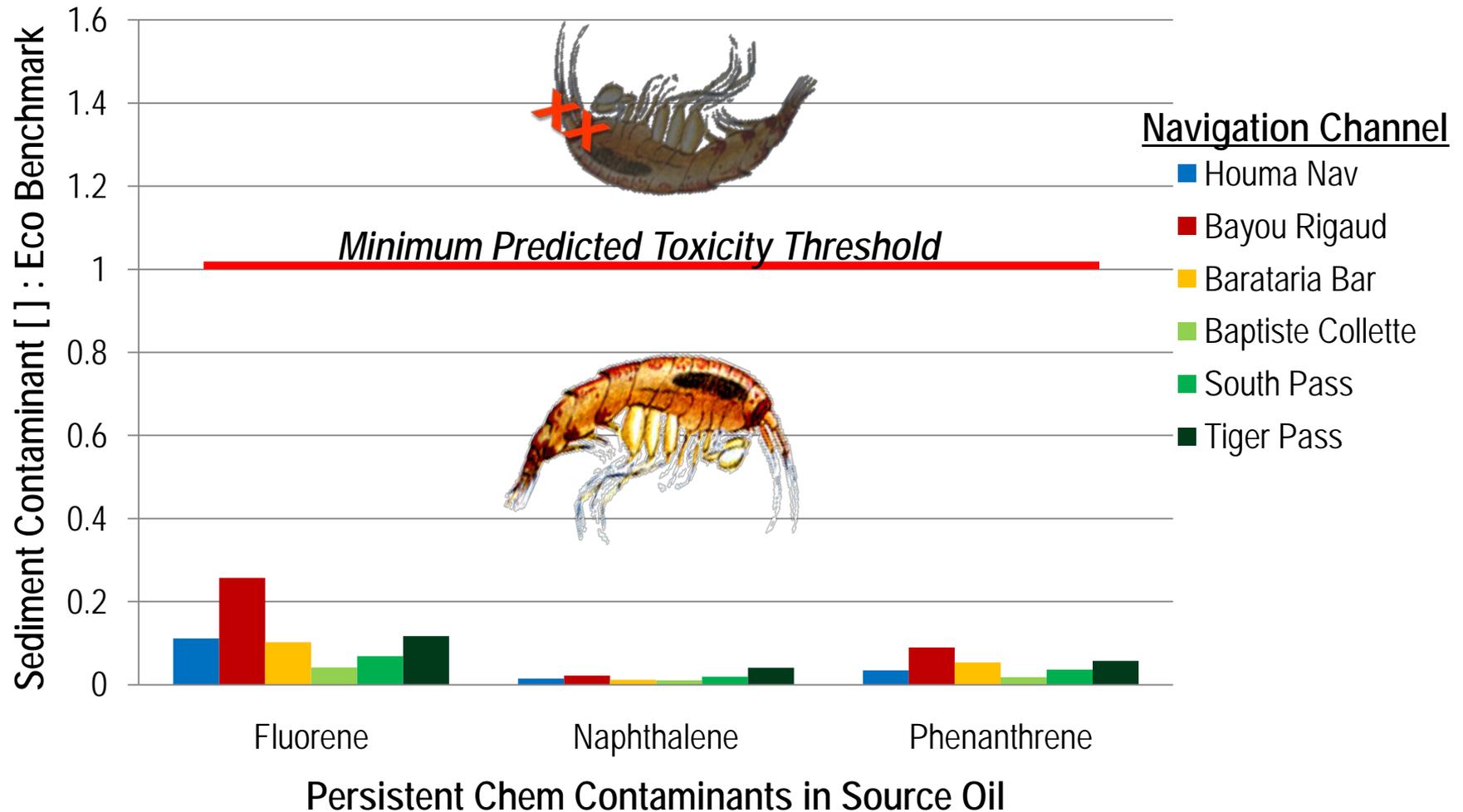


Project Specific Impacts – USACE Dredged Material Assessments



- 23 Gulf Projects Identified for Re-Evaluation
- Determine if Oil-Related Contaminants are Present
- Conduct Biological Tests if Contaminants Elevated

USACE Preliminary Results – Sediment Chemistry





What are our Chances to Strike Oil?

- 💧 **No Direct Impacts to Dredging Ops During Spill**
 - Indirect Impacts to Permitting being Addressed
- 💧 **No Evidence of Submerged Oil Moving to Shore**
- 💧 **Residual Oil Moving within Sub-Tidal Zone**
 - May Require Flexibility in Disposal Plans
- 💧 **No Evidence of Oil in Shoal Material**
 - Dredged Material Screening Kits Available



Questions?



*Background image NASA Aeronet – May 24, 2010

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